Author Index

Abbey, L. E., 389
Ahmad, M. S., 796, 805
Ali Mirza, U., 406
Anchisi, C., 162
Anderson, G. B., 670
Ansari, I. A., 805
Anthoni, U., 117
Arpino, P. J., 736
Arseniyadis, S., 121
Ashcroft, A. E., 304, 647, 750
Ast, T., 418
Audier, H. E., 297, 746
Audisio, G., 85
Aurelle, H., 6

Balasubramanian, K. K., 17
Baldwin, M. A., 561, 633
Ballantine, J. A., 316, 564
Bankova, V. S., 334
Barber, M., 647
Bartoń, H. J., 109
Barton, J. D., 316, 564
Bartoszek, M., 259
Basselier, J. J., 123
Bates, R. B., 295
Bell, D., 647
Berthelot, J., 123
Beynon, J. H., 289, 682, 779
Bhutani, S., 477
Bidault, F., 748
Bilger, C., 719
Blanchette, M. C., 701
Blom, K., 530, 727
Bloodworth, A. J., 765
Blum, W., 3, 61
Blumenthal, T., 541
Bojarski, J. T., 109
Boland, W., 458
Bouchoux, G., 98, 451, 748, 770
Bowen, R. D., 231
Bowie, J. H., 103, 541
Boyd, R. K., 779
Bravo, P., 462
Bremser, W., 321
Brenton, A. G., 289, 779
Briggs, D., 91
Brito, M. B., 740
Brophy, J. J., 697
Brown, R. S., 647
Budzikiewicz, H., 384, 458, 493
Bujtás, G., 677
Bursey, M. M., 132, 534, 775
Busker, E., 458

Caldwell, G. W., 233
Capozzi, G., 179
Cardaciotto, S. J., 342
Carrie, R., 121
Carter, J. F., 316, 564
Cazaussus, A., 719
Cecchinato, F., 301
Celewicz, L., 52
Cert, A., 203
Čevizović, N., 400
Chai, W., 279, 660
Chan, L. K., 697
Chen, S. C., 633
Chen, S. N., 633
Christophersen, C., 117
Chung, C.-S., 745
Coad, P., 75
Coad, R. A., 75
Cole, E. R., 697
Connolly, J. D., 359
Constantin, E., 13, 173
Cooks, R. G., 348, 418
Corda, L., 162
Crombie, R. A., 216
Culea, M., 474
Curtis, J. M., 289, 779

Dagaut, J., 451
Daszkiewicz, Z., 39
Demerseman, P., 719
Dezor-Mazur, M., 197
D'Haenens, L., 330
Dhindsa, G. S., 36, 49
Djazi, F., 744
Dommröse, A., 437
Domon, B., 61
Dorn, S. B., 238
Duffield, A. M., 697
Dyall, L. K., 519

Eggelte, H. J., 765
Eichinger, P. C. H., 103
Espinosa-Leniz, R., 169
Ezra, F. S., 241

Fahmey, M. A., 381
Feng, T.-M., 606
Ferrario, F., 189, 523
Filges, U., 444
Fillaux, J., 451
Fishel, D. L., 799
Flammang, R., 121, 770
Florêncio, M. H., 506
Fokkens, R. H., 699
Forest, E., 45
Fraisse, D., 368, 665
Francke, W., 458
Franke, P., 359
Fung Kee Fung, C. A., 389
Furton, K. G., 210, 377
Fussell, B., 316, 564

Gargano, M., 183
Garibay, M. E., 479
Gäumann, T., 145
George, M., 140
Glish, G. L., 224
Golankiewicz, K., 52, 197
Grassi, M., 85
Gregor, I. K., 644
Griffiths, W. J., 559, 812
Gros, E., 474
Gros, I., 474
Grotemeyer, J., 758
Grützmacher, H.-Fr., 307, 437, 444, 493.
Guenot, P., 121, 550
Guette, C., 123
Guidugli, F. H., 479
Gupta, A. K., 790

Harris, F. M., 559, 682, 812
Harrison, A. G., 186, 216, 283, 622, 637, 651, 710
Heerma, W., 506
Herod, A. A., 115
Herzschuh, R., 119, 129
Hetper, J., 39
Heusinger, H., 235
Hollósi, M., 677
Holmes, J. L., 701
Hoppilliard, Y., 98
Houriet, R., 770
Hua, Z., 761
Hudson, C. E., 311, 615
Huneck, S., 359
Hunt, D. F., 61
Hunt, J. E., 799
Hutchinson, D. W., 304

Iberkleid, E., 3
Ishibashi, M., 23
Itoh, M., 23

Jankowska, J., 52
Jaudon, P., 98
Jin, S., 660
Jing, Z. Z., 633
Johns, R. B., 670
Johnson, C. A. F., 115
Johnson, R. L., 807
Johnston, M. V., 627
Joseph-Nathan, P., 479

Kabalka, G. W., 231
Kalyanam, N., 43
Kaushik, B., 36
Kavka, J., 479
Keough, T., 241
kieu, My, N., 113, 248, 254
King, J. A., Jr, 238
Kingston, E. E., 30, 682
Kinsel, G. R., 627
Kinter, M. T., 775
Kiplinger, J. P., 534
Kluft, E., 119
Knuutinen, J., 70
Korhonen, I. O. O., 70
Kotali, A., 373
Kotzyba-Hibert, F. H., 13
Kowalski, M. H., 642
Kulkarni, P. S., 655
Kulshreshtha, D. K., 368
Kyzioł, J. B., 39

Lacey, M. J., 30
Lange, C., 55, 123
Langley, G. J., 561
Larsen, C., 117
Laude, B., 550
Lee, C.-K., 553
Lehn, J. M., 13
Lidgard, R. O., 697
Ligon, W. V., Jr, 238
Lin, T., 311
Lin, Z.-M., 660
Liu, P., 660
Lobo, A. M., 506
Lopez-Avila, V., 557
Lossing, F. P., 701
Louris, J. N., 348
Lu, K., 279
Luo, Y., 279

Mabud, Md. A., 418
Maccioni, A. M., 301
Madhusudanan, K. P., 368, 665
Majer, Z., 677
Mälkönen, P. J., 688
Mandelbaum, A., 3, 61, 283
Maquestiau, A., 121, 770
March, R. E., 545, 651
Marchon, J. C., 45
Masarrat Ali, S., 796, 805
Masucci, J. A., 233
Masur, M., 307, 493
Maynard, A. T., 534
McAdoo, D. J., 311, 615
McCloskey, J. A., 251
McLuckey, S. A., 224
Meić, Z., 400
Meisel, T., 229
Mercer, R. S., 710
Millet, A., 746
Mitchell, D., 231
Miyazaki, H., 23
Mokrosz, J. L., 109
Moldovan, Z., 474
Mollova, N. N., 334
Mommers, A. A., 592
Monteiro, C., 299
Moore, C., 647
Moran, T. F., 64, 389
Moriarty, R. M., 49
Morizur, J.-P., 299
Mourad, A.-F. E., 693
Mourgues, P., 746
Mowery, P. C., 342
Mruzek, M. N., 765
Mühlstädt, M., 129
Muller, D., 61
Munson, B., 597, 606, 727
Münster, H., 384, 493
Murray, R. K., Jr, 606
Murthy, V. S., 665

Nacson, S., 283
Nageswar, Y. V. D., 176
Nakata, H., 23
Nelson, P. R., 64, 389
Neudert, R., 321
Nevalainen, V., 80, 382, 586, 610
Nibbering, N. M. M., 119, 699
Niclas, H.-J., 259
Nicod, B., 748
Nielsen, L. T., 740
Nielsen, P. H., 117
Niki, Y., 157
Novák, L., 229
Nutiu, R., 474

Occhipinti, S., 269
Ogino, K., 379
O'Lear, J. R., 348
Orlando, R., 597

Palibroda, N., 474
Paluchowska, M. H., 109
Pancíř, J., 145
Papageorgiou, V. P., 373
Pappalardo, S., 269
Paradisi, C., 699
Paris, J., 802
Parker, J. E., 115
Pellegata, R., 523
Pelli, B., 162, 183
Perez-Lanzac, M. T., 203
Podda, G., 162
Pomerantz, S. C., 251
Poole, C. F., 210, 377
Popov, S. S., 334
Porter, Q. N., 670
Porter, R. F., 410
Prabhakar, S., 506
Prakash, O., 49, 212
Prome, D., 6
Prome, J., 6
Pryne, J. D., 241

Quayle, A., 569

Rabbih, M. A., 381
Radom, L., 430
Raksit, A. B., 410
Rama Rao, K., 176
Ramana, D. V., 17, 140
Ravasio, N., 183
Reitz, A. B., 233
Resnati, G., 462
Rezk, A. M. H., 381
Richter, W. J., 3, 61
Ridge, D. P., 597
Robin, D., 297
Robinson, J. N., 154
Rocher, J.-P., 802
Röllgen, F. W., 468
Rolli, E., 770
Rossi, M., 183
Rothwell, A. P., 790
Russell, A. F., 241

Saba, A., 189
Sahasrabudhe, S. D., 655
Saiganesh, R., 17
Salzwedel, D., 259
Santillan, R. L., 479
Santos, M. A., 506
Sattur, P. B., 176
Savagnac, A., 6
Sawhney, S. N., 477
Schelfaut, M., 330
Schilling, M., 113, 254
Schlag, E. W., 758
Schmidt, J., 359
Schmitter, J.-M., 736
Schneider, B., 458
Schram, K. H., 295
Schröder, E., 384
Schulze, B., 119, 129
Schwarz, H., 113, 248, 254
Scorrano, G., 699
Sedgwick, J. B., 389
Segar, K. R., 627
Selim, E. T. M., 381
Sellier, N., 719
Selva, A., 189, 523
Shabanowitz, J., 61
Shannon, J. S., 30
Sharp, T. R., 642
Shields, G. C., 64, 389
Singh, S., 682
Singh, S. P., 36, 212
Sivaram, S., 43
Southwell-Keely, P. T., 697
Sozzi, G., 746
Sprafke, A., 307
Srinivas, R., 17
Srinivasan, T. N., 176
Srivastava, R., 368, 740
Srzić, D., 400
Stahl, D., 145
Stang, P. J., 642
Steiner, P. A., IV, 64
Strachan, M. G., 670
Strobel, F., 597
Stumm, G., 259
Sturaro, A., 179, 462
Sundaram, N., 140
Svendsen, J. S., 421, 486
Swaminathan, K., 17
Sydnes, L. K., 421, 486
Szabó, E., 229

Tabet, J.-C., 132
Tajima, S., 379
Tavares, M. R., 506
Taylor, L. C. E., 807
Tedder, J. M., 154
Tetler, L. W., 647
Thomson, M. L., 342
Tilak, B D., 655
Tobita, S., 379
Tortajada, J., 299, 451, 748
Traeger, J. C., 592
Traldi, P., 13, 85, 162, 173, 179, 183, 301, 462, 699
Trauner, M. C., 64
Tsoungas, P. G., 373
Tsuchiya, M., 157
Tuaillon, J., 550
Tureček, F., 145

Ulrich, J., 45

Vaid, R. K., 36, 49, 212
Vainiotalo, P., 80, 382, 586, 610, 688
Vairamani, M., 176, 406
Van de Sande, C. C., 330
Vandewalle, M., 330
van Gemmeren, U., 468
Vara Prasad, J. V. N., 790
Varma, R. S., 231
Vebrel, J., 550
Vékey, K., 289
Ventura, P., 523
Viani, F., 462
Vir, D., 477
Virelizier, H., 45
Voyksner, R. D., 513

Wagner, H., 321
Wang, G., 279, 660
Wang, M. L., 633
Wang, X. J., 633
Ward, H. D., 606
Wayne, R. S., 342
Weiss, M., 216
Weisz, A., 3, 61
Whist, J. E., 421, 486
White, E., V, 169
White, E. L., 132
White, J. J., 295
White, P. Y., 541
Wilkins, C. L., 75
Wilson, R., 115
Wood, K. V., 790
Woolfitt, A. R., 304
Wright, L. G., 348
Wu, C. T., 633
Wu, G., 279

Yan, L., 279
Yang, C. L. C., 75
Yates, B. F., 430
Yinon, J., 501
Young, A. B., 622, 651

Zaretskii, Z. V. I., 682

Key Word Index

Accurate mass variations at high mass, 251
Acetophenones (protonated), 444
Acetyl acetonato carbonyl rhodium, 761
Acetylene loss from $[C_{11}H_9]^+$, 248
Alcohols, 637
  Aliphatic, 597
  Unsaturated, 606
Alkaloids,
  Hemiterpenoid tricyclic quinoline alkaloids, 462
Alkanals, 644
  Rearrangements, 748
Alkanones,
  Rearrangements, 748
Alkoxide ions, 710
Alkoxy-cyclopentenones, 229
Alkylammonium toluenesulphonate salts, 210
Alkyl-2-ethyl hexanoates, 474
Allenes (-substituted), 121
Amines, 637
Androstanes, 183
Anthracene, 719
Anthrafuran, 719
Antibiotics, 754
Aromatic halides, 727
Aryl sulphenamides, 697
Ascorbic acid, 75
6-Azasteroidal tetrazoles, 805

β-Particle induced dissociation, 301
B/E linked scan, 17, 23, 30
B^2/E linked scan, 17, 23
Benzamidoximes, 740
Benzimidazolyl substituents, 477
Benzodiazepines, 660
Benzohydroxamic acid, 506
Benzothiazolyl substituents, 477
Benzothiohydroxamic acid, 506
Benzylideneaniline, 400
Bicyclic peroxides, 765
Bicyclic sesquiterpene alcohols, 368
Bicyclooctenes, 85
Biurets, 109
Breakdown graphs,
  Enolates, 622
Bromination, 123
Bromoketones, 437

C_γ-Ketones,
  Ion/molecule complexes, 307
Carbenium ions, 437
Carbon labelling, 248, 297, 299
  Ethanol, 644
  2-Hexanone, 451
  Naphthoflavones, 479
Carbon scrambling, 248, 297
Carbonyl compounds, 216
Carbonyl metallate anions,
  Decarbonylation, 644
  Alkane elimination, 644
$[C_3H_5]^+$ derivatives with benzene, 254
C_6H_6 isomers, 775
Chalcone dimers, 157
Charge exchange, 283, 410
  Cross-sections, 545
Charge inversion, 559, 710
Charge separation reactions, 289
  Inter-charge distances, 545
Charge stripping, 779
  Internal energy dependence, 186
Charge transfer reactions,
  Cross-section, 64
  Energy defects, 64
Chemical ionization, 30, 85, 173, 216, 235, 330, 665, 688
  Amine reagent gas, 334
  Ammonia-d_3 reagent gas, 368
  Double bonds, 458
  Flavonoid glycosides, 334
  Freon reagent gas, 670
  Methyl halide reagent gas, 770
  NO reagent gas, 458
  Nucleophilic substitution, 368
  Remote functional groups, 458
  Self chemical ionization, 564
  Tetramethylsilane/helium reagent gas, 597
  Unsaturated alcohols, 606
Chemical reduction, 736
Cholestane, 796
Chroman-3-one oximes, 231
Chromium carbonyls, 644
Coal derived liquids, 670
Collisional activation, 121
Collisional dissociation, 98, 103, 189, 224, 289, 406, 437, 501, 506, 523, 534, 655, 719, 748
  C_5H_8, 779
  Energy dependence, 622
  Energy resolved, 637, 779
  High pressure, 727
  Low energy, 61
  Pressure dependence, 727
  Separation of epimers, 183
  Surface induced, 418
Computer interpretation, 321
Consecutive reactions, 682
Constant parent ion spectra, 30
Crown ethers, 162, 269
  Pyrido-containing, 633
Cyclic acids, 688
Cyclization reactions, 189
1,3-Cycloalkanediols, 330
Cycloreversion reactions, 655

Data acquisition system,
  Metastable ion spectra, 592
Desorption chemical ionization, 45
Deuterium labelling, 103
  Alkoxide ions, 710
  Allenes, 121
  Benzene, 651
  Benzylideneaniline, 400
  Bicyclic peroxides, 765
  Bromoketones, 437
  n-Butanol, 615
  Carbonyl compounds, 216
  C_3D_n species, 545
  Dithianes, 541
  Formamide, 534
  Free radicals, 410
  2-Hexanone, 451
  Hydrogen exchange, 677
  Methyl butanoate, 311
  Methyl tetrahydrofurans and isomeric pyrans, 229
  Naphthoflavones, 479
  Oxiranes, 98
  2-Phenylpropan-2-ols (substituted), 444
  trans-Sobrerol, 523
  Veratroles, 70
3,5-Diaryl-4-nitroisoxazoles, 550
Diazo compounds, 189
Dicarboxylic acids, 688
2,3-Dihydrobenzofurans,
  2-Methylsulphonomethyl-, 179
  2-Methylthiomethyl-, 179
Dihydro-1, 4-dithiines, 586
1,3-Dihydro-2*H*-imidazole-2-thiones, 203
4,5-Dihydro-3(2*H*)-pyridazinones (substituted), 477
1,3-Diketones, 493
1,2-Dimethoxybenzenes (chlorinated), 70
Dimethyl furan, 297
Dioximes (aliphatic and alicyclic), 373
Direct liquid introduction,
  Acetonitrile solvent, 736
2,3-Disubstituted 1,3-butadienes, 295
Diterpenoids,
  Scapanin related, 359
1,3-Dithiolanes, 80
Doubly-charged ions, 289
  Charge separation, 651
Doubly-charged ion spectra, 389

Electron capture induced dissociation, 289
Electron impact induced cyclizations, 17
Energy resolved spectra, 283
Epimers, 183
Ethers,
  Hydrogen rearrangements, 746
Ethyl halides,
  Stable neutral isomers, 701
Even-electron ion rearrangements, 216
Explosives, 501

FAB-induced reaction, 279
Fast atom bombardment, 45, 210, 377, 506
  Accurate mass measurement, 807
  Continuous flow, 304, 647, 754
  Divided target, 384
  Exact mass determination, 384
  Matrix reactions, 642
  Negative ion, 6
  Organometallics, 642
  Peptide digests, 304
  Radical reactions, 241
  Thiirenium ion, 699
Field desorption,
  Acyl pyridinium salts, 238
  Photoplate mass calibration, 169
Fourier transform MS, 75, 644
Free radicals, 410, 665
Functional group interaction, 688
Furans,
  Alkyl, 389
  Cycloalkene substituted, 790

Gas-phase derivatization, 254
Glycosides, 553

Heats of formation, 451
$[C_2H_7N]^{+\cdot}$, 430
  Ethyl halide isomers, 701
2-Hexanone, 451
Historical development of mass spectrometry, 569
Hydrogen exchange, 677
Hydrogen migrations, 637
  Non-specific, 615
3-Hydroxydicarboxylic acids, 421

Imidazolinones (*N*-methylated), 342
Intramolecular substitution, 129
Ionization and appearance energies,
  Benzohydroxamic acid, 506
  Cis/trans isomers, 145
  Doubly-charged ions, 389
  Ethyl halide isomers, 701
  H loss from benzyl compounds, 381
Ion/molecule reaction, 644
  Benzoyl ion/ ammonia, 132
  C_1 ions/ethene or propene, 154
  Energetics, 132
  Ion translational energy, 132
  Pressure dependence, 770
Ion-neutral complexes, 615
Isomer differentiation, 157, 677
Isotopic abundance variations, 251
Isotopic labelling, 30

Keto/enol tautomerism, 379
Ketone trimethylhydrazinium derivatives, 799
Kinetic energy release, 121, 289, 651, 682
$C_2H_5O^+$, 162
Kinetic energy release distributions, 98
Kinetic isotope effect, 30

Laser desorption, 75
Laser evaporation, Insulin, 758
Lecithins, 173
LC/MS, Fast atom bombardment, 754
Thermospray ion evaporation, 513
Library search, 321
Linear discriminant analysis, 259
Linked scan, 348, 421, 486, 677
B/*E*, 17, 23, 30
B^2/E, 17, 23
$SCN^•$ loss, 129
Liquid ionization, 157

Macrocyclic polyether lactones, 162
Mass-analysed ion kinetic energy spectra, 6, 189, 379, 444, 451, 462
Mass calibration Polyethylene glycol, 561
Mercury compounds, 233
Metastable ions, 633
Metastable ion spectra, 216, 437, 523
Data acquisition system, 592
Metastable ions, 651, 748
Composite peaks, 682
Methyl butanoate, 311
Methyl halides, 770
Molecular orbital calculations, Carbonyl and thiocarbonyl cations, 610
$[C_2H_7N]^{+•}$, 430
Formamide conjugate base, 534
Furans, 389
Protonated thioacetic acid, 382
Pyrroles, 389
Monosaccharides, 534
Multiphoton ionization, Insulin, 758

Naphthoflavones, 479
Negative ion FAB, 6
Negative ions, 644, 665, 670, 710
Carbonyl metallates, 644
Charge reversal, 534
Collisional dissociation, 534, 541
Dithianes, 541
Enolate rearrangements, 103
Enolates, 622
Formamide, 534
Ortho effects, 224
Water, 559
Neutralization/reionization MS, 410, 701, 710
Nylon, 91

Octanones, 348
Ortho effects, 17, 259, 406
Mechanisms, 224
N-Arylidene 2-nitrobenzenesulphenamides, 140
Negative ions, 224
Oxazaphosphorins, 655
N-Oxides, Benzofurazan-1-oxide, 519
Oxiranes (epoxides), 98
3-Oxodicarboxylic acids, 486
Oxygen-containing heterocycles, Ring expansion and contraction, 299
Oxygen-18 labelling, *trans*-Sobrerol, 523

[2,2] Paracyclophanes Ethenyl substituted, 693
2,4-Pentanedione, 379
Peptides, 754
Phenols, 670
Phenyl phenoxyacetates, 406
Photoplate mass calibration, 169
Plasma desorption, 799
Potential energy surfaces, Topological MO calculations, 145
Proton transfer, 775
Proton affinities, 637
Protonated dimer reactions, 235
Protonation, 637
Provitamin D, 682
Pyranoid/furanoid differentiation, 553
Pyrans, 802
Pyrazoles, 796
Pyrroles (alkyl), 389

Quinolyl pyrazols, 212
Quinoxaline *N*-oxides, 259

Radiolysis, 241
Reduction of double bonds, 665
Resonance enhanced multiphoton ionization, Wavelength dependence, 627
Retro Diels–Alder reaction, Energy dependence, 145
Stereoelectronic control, 145
Retro 1,3-dipolar cycloaddition, 550
Ring contractions, 660
Rhodium compounds, 761

$SCN^•$ Loss, 129
Semi-empirical calculations, 64
Signal averaging, 807
Silatranes, 279
SIMS, 91
Skeletal rearrangement, 30
Stable isotope dilution equations, 530
Stereochemical effects, 330, 688
Stereoisomers, 85
Maleic and fumaric acid esters, 283
Stereospecific reactions, Water loss from *trans*-sobrerol, 523
Steroids, 682, 796, 805
Stigmastane, 796
Substructures, 321
Succinates, 61
Sulphamides, 176
Sulphonamides, 176
Surface-induced dissociation, 418
Surface ionization, Quaternary ammonium salts, 468

Tandem MS, 61, 289, 651
Energy resolved MS, 622
Hybrid instrument, 348
Ion/molecule reactions, 132, 154
Ion structure, 779
Isomer differentiation, 348
Proton transfer, 775
Tautomerism, 493
Tetra-*n*-butylammonium salts, 377
Thermal reaction in GC, 557
Thermochemistry, 622
C_6H_6 isomers, 775
Thermospray, Ammonium adducts, 561
Nucleosides, 513
Polyethylene glycol, 561
1,3,4-Thiadiazolo thiacrown ethers, 269
Thiophenes, Cycloalkene substituted, 790
Time-of-flight, 64
Trimethylsilyl derivatives, 421
Trimethylsilyl enol ethers, 486
2,4,6-Trinitroaromatics, 501

Uracil brominated derivatives, 197
Ureides, 109

Veratroles (chlorinated), 70
Vinyl platinum complexes, 642
Vitamin D, 682

Wheland complexes, 254

Ylids, 701